Claims

[c1] An isolated nucleic acid having at least 80% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c2] The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c3] The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c4] The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c5] The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);
(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);
(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or
(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c6] An isolated nucleic acid comprising:
(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);
(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);
(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);
(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or
(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c7] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38).

[c8] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide.

[c9] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38).

[c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide.

[c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37).

[c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37).

[c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c14] An isolated nucleic acid that hybridizes to:
(a)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38);
(b)a nucleic acid sequence encoding the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38);
(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 38 (SEQ ID NO:38), lacking its associated signal peptide;
(e)the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37);
(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 37 (SEQ ID NO:37); or
(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203133.

[c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.

[c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.

[c17] A vector comprising the nucleic acid of Claim 1.

[c18] The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.

[c19] A host cell comprising the vector of Claim 17.

[c20] The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.